XAMBRIDGE MA 021401340  x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-D-14-032  10B. DATED (SEE ITEM 13)	AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
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US ENVIRONMENTAL Protection Agency 109 T.W. ALEXANDES DIVISE MALI COde: E105-02  RAME AND ADDRESS OF CONTRACTOR Re. area county. Seas and ZP Code)  NOUSTRIAL ECONOMICS, INCORPORATED  067 MASS AVE STE 4  AMERICAGE MA 021401340  X MADDIFFACTOR OF CONTRACTOR Re. area county. Seas and ZP Code)  178 MATERIA ECONOMICS, INCORPORATED  069 DATE (SEE ITEM TI)  SECURITY CODE  19 AL MEDITATION OF CONTRACTOR RE. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  19 AL MEDITATION OF CONTRACTOR RE. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  19 AL MEDITATION OF CONTRACTOR RE. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  19 AL MEDITATION OF CONTRACTOR RE. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RE. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RE. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO SOLICITATION NO. AND SOLICITATION OF CONTRACTOR ROBBES. IT MODIFIES THE CONTRACTOR NO. AS DESCRIBED IN TERM 14.  SECURITY CODE  10 ALEXANDRE OF CONTRACTOR RES. THE MATERIA TO ALITHORTY OF CONTRACTOR RES. THE MATERIA TO ALITHORTY OF CONTRACTOR ROBBES SET PORTH IN TIEM 14 ARE MADE IN THE CONTRACTOR SET THE ALITHORTY OF CONTRACTOR ROBBES SET PORTH IN TIEM 14 ARE MADE IN THE CONTRACTOR OF THE MATERIA TO ALITHORTY OF CONTRACTOR ROBBES SET PORTH IN TIEM 14 ARE MADE IN THE CONTRACTOR OF THE MATERIA TO A		RTPPOD	7. AUMINISTERED BY (If other than Item 6)	ODE
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Research Triangle Park NC 27709  NAME AND ADDRESS OF CONTRACTOR (No. seek court, Stee and ZP Code)  OO PARS AVE STE 4  AMBRIDGE MA 021401340  X			1	
AMERIADA ADDRESS OF CONTRACTOR (No. Monte, course, sizes and 20° code)  NDUSTRIAL ECONOMICS, INCORPORATED  OF MASS AVE SIZE 4  AMBRIDGE MA 021401340  ***  ***  ***  ***  **  **  **  **	·	709		
NDUSTRIAL ECONOMICS, INCORPORATED  OF MASS AVE STE 4  ARRENDES MA 021401340  X 100, MODIFICATION OF CONTRACTIONDER NO.  INC. MODIFICATION OF CONTRACTIONDER NO.  DATE (SEE ITEM 19)  DOILE OF SEE ITEM 19)  DO		·	İ	
INDUSTRIAL ECONOMICS, INCORPORATED  OFF MASS AVS STD 4  ANDRINGS HA 021401340  The ADDRIVATION OF CONTRACTORDER NO.  EP-D-14-032  The above numbered solicitation is amended as set from in time 14. The hour and date specified in the solicitation or as servended, by one of the following methods: (a) by competing colored or the normal advanced received of this amendment part or the hour and date specified in the solicitation or as servended, by one of the following methods: (a) by competing colored or the normal advanced received or received comprising the normal received or the normal advanced received comprising the normal advanced received comprising to the normal advanced received comprising to the normal received comprising the normal received comprising to the normal received comprising to the normal received comprising to the normal received comprising the norma	<ol><li>NAME AND ADDRESS OF CONTRACTOR (No., street,</li></ol>	county, State and ZIP Code)	(x) 9A. AMENDMENT OF SOLICITATION NO.	
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Special Code   1977   1987			10B. DATED (SEE ITEM 13)	
This ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS    The above numbered solicitation is amended as set both in item 14. The hour and date specified for receipt of Offers   The above numbered solicitation is amended as set both in item 14. The hour and date specified for receipt of Offers   Offers must acknowledge receipt of this amendment price to the hour and date specified in the solicitation or as amended, by one of the following methods: (e) By completing copies of the amendment price to the hour and date specified in the solicitation or as amended, by one of the following methods: (e) By separate later or electronic communication provided copies to the amendment price and the price of the amendment of the self-control of the se	CODE 007977887	FACILITY CODE	<b>→ 1</b>	
The above numbered solicition is amended an act forth in lien 14. The hour and date specified for receipt of Offers most acknowledge receipt of this memoritament for the hour and date specified in the solicitation or as amended, by one of the following members (all ply completing lloms 8 and 15, and returning copies of the amendment (b) By advantaging most post of this amendment on each copy of the offer submitted; (c) By completing specified in the solicitation and amendment memoritament on each copy of the offer submitted; (c) By organization and amendment memoritament on each copy of the offer submitted; (c) By completing and amendment memoritament on each copy of the offer submitted in the completion of the completion of the specified in the completion of the specified in the completion of		11. THIS ITEM ONLY APPLIES T		
Others must advandedpe receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by and of the following methods: (a) By completing litters and not fair, and offering copie of the amendment (b) By advandedping receipt of this mendment on each copy of the other submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURG OF YOUR ACKNOW_EDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF PETREP PRIOR TO THE HOUR AND DATE SECTIED MY RESCRIPTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided such change may be made by letter or electronic communication, provided such that or electronic communication mades reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.  2. ACCOUNTING AND APPROPRIATION DATA (If required)  1. THIS CHANGE ORDER IS ISSUED PURSUANT TO. (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. AT THIS CHANGE ORDER IS ISSUED PURSUANT TO. (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT Appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).  1. THIS CHANGE ORDER IS ISSUED PURSUANT TO. (Proprint of THE AUTHORITY OF	The above numbered solicitation is amended as set for			
copies of the amendment, (b) By acknowledging receipt of this amendment and each copy of the offer submitted; or (c) By separate letter of electronic communication which includes a reference to the socilitation and amendment numbers. AFLUIRE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRICE TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by writing the disable to their your decide to their government of the amendment of the same distriction communication. Provided such letter or electronic communication makes reference to the societation and this amendment and per societation and distriction. ACCOUNTING ADD PREPORTATION DATA (if required)  13. THIS ITEM ONLY APPELES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.  ACCOUNTING ADD PREPORTATION DATA (if required)  13. THIS ITEM ONLY APPELES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.  A THIS CHANGE ORDER IS ISSUED PURSUANT TO. Specify authority. THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10.  B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, springeriation data, doc). SET FORTH IN ITEM 14, PURSUANT TO HEALTHORITY OF.  C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF.  D. OTHER (Specify type of modification and authority)  X. Limitation of Funds Clause  IMPORTANT: Contractor  B. Internation of Funds Clause  IMPORTANT: Contractor  Contractor  INTERNATION OF FUNDS CLAUSE AND THE ADDITING OFFICER (Type or print)  NAME AND TITLE OF SIGNER (Type or pri	Offers must acknowledge receipt of this amendment or	or to the hour and date specified in	be delicitation or as amond of the same of the same of	i. Lis not extended.
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PREVIOUS PREVIOUS OF THIS PRECISION OF YOUR SHORT OF FERS PRIOR TO THE HOUR AND DATE SECRIFIED MAY SECULIT IN ELECTION OF YOUR OPERAL Thy vituo of this amendment, you desite to the ange and for already submitted, such change may be made by bletter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.  ACCOUNTING AND APPROPERIATION DATA (if required)  Net Increase: \$75,000.00  13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.  **HECK ONE**  A THIS CHANGE CROEK IS ISSUED PURSUANT TO. (Specify authority). THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 100.  B. THE ABOVE NUMBERSED CONTRACT/ORDER IS MODIFIED TO PERFECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, stc.). SET FORTH IN ITEM 14, PRESUMANT TO THE AUTHORITY OF.  C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF.  D. OTHER (Specify type of modification and authority)  X. Limitation of Funds Clause  MMODIFIED TO PURSUANT TO THE AUTHORITY OF.  DESCRIPTION OF AMENDMENTIMODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  NS Number: 007977887  energits and Other Relevant Analyses and Methods Development for Evaluation of Air luttion Control Policies."  X Expire Date: 09/15/2019  e purpose of this modification is to incrementally fund option period IV in the amount of 5, 000.00  1 other terms and conditions remain unchanged.  **A THIS CHARGE AUTHORITY (Type or print)**  Natalia Fisher-Jackson  16C. DATE SIGNED  16B. UNITED STATES OF AMERICA  16C. DATE SIGNED  16B. UNITED STATES OF AMERICA  16C. DATE SIGNED		es of the amendment; (b) By acknow	vledging receipt of this amendment on each copy of the offer s	ubmitted ; or (c) By
Services of the american you deser to change an offer already submitted, such change may be made by jotter of electronic communication, provided search test or electronic communication and the americant, and is received prior to the opening hour and date specified.  **ACCOUNTING AND APPROPRIATION DATA (**Irrequired**)**  **INTER ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.  **HECK ONE**  **A THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority)** THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 104.  **B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF.  **D. OTHER (Specify type of modification and authority)**  **D. OTHER (Specify bype of modification and authority)**  **D. ESCENTION OF AMENDMENTANDOFFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**  **INS Number:**  **O07977887**  **DESCRIPTION OF AMENDMENTANDOFFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**  **INS Number:**  **O07977887**  **Expire Date:**  **O9/15/2019**  **ONTRACTOR/OFFICER (Type or print)**  **INAME AND TITLE OF SIGNER (Type or print)**  **NAME	RECEIVED AT THE PLACE DESIGNATED FOR THE	des a reference to the solicitation an	d amendment numbers. FAILURE OF YOUR ACKNOWLEDG	SEMENT TO BE
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C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF.  D. OTHER (Specify type of modification and authority)  X Limitation of Funds Clause  IMPORTANT: Contractor				•
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF.  D. OTHER (Specify type of modification and authority)  X Limitation of Funds Clause  IMPORTANT: Contractor ② is required to sign this document and return copies to the issuing office.  D. DESCRIPTION OF AMENDMENTMODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  JNS Number: 007977887  Benefits and Other Relevant Analyses and Methods Development for Evaluation of Air collution Control Policies."  Expire Date: 09/15/2019  Description of Amendment of Policies of the issuing office.  The purpose of this modification is to incrementally fund option period IV in the amount of purpose of this modification is to incrementally fund option period IV in the amount of the following provided herein, all terms and conditions remain unchanged.  The purpose of this modification of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.  NAME AND TITLE OF SIGNER (Type or print)  Natalia Fisher-Jackson  16C. DATE SIGNED  (Signature of person authorized to sign)  Contractory of person authorized to sign)	B. THE ABOVE NUMBERED CONTRACT appropriation data, etc.) SET FORTH	ORDER IS MODIFIED TO REFLECT NITEM 14, PURSUANT TO THE AL	T THE ADMINISTRATIVE CHANGES (such as changes in pa	ying office,
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DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  DINS Number: 007977887  Benefits and Other Relevant Analyses and Methods Development for Evaluation of Air pollution Control Policies."  Expire Date: 09/15/2019  Discreptive Date: 09/15/2019  Discr	X   Limitation of Funds C	lause		
DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  Sometits and Other Relevant Analyses and Methods Development for Evaluation of Air sollution Control Policies."  Ax Expire Date: 09/15/2019  Deepurpose of this modification is to incrementally fund option period IV in the amount of 15,000.00  If other terms and conditions remain unchanged.  Intinued  Deept as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.  Ax NAME AND TITLE OF SIGNER (Type or print)  Discription of person authorized to sign)  16C. DATE SIGNED  18C. DATE SIGNED  12/12/2018				œ.
Denefits and Other Relevant Analyses and Methods Development for Evaluation of Air Delution Control Policies."  IX Expire Date: 09/15/2019  Re purpose of this modification is to incrementally fund option period IV in the amount of 5,000.00  1 other terms and conditions remain unchanged.  Intinued  Repta sprovided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.  NAME AND TITLE OF SIGNER (Type or print)  16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)  Natalia Fisher-Jackson  16C. DATE SIGNED  (Signature of person authorized to sign)  12/12/2018	. DESCRIPTION OF AMENDMENT/MODIFICATION (O	rganized by UCF section headings,	including solicitation/contract subject matter where feasible.)	
Dilution Control Policies."  Expire Date: 09/15/2019  De purpose of this modification is to incrementally fund option period IV in the amount of 5,000.00  1 other terms and conditions remain unchanged.  Intinued  Dept as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.  A. NAME AND TITLE OF SIGNER (Type or print)  16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)  Natalia Fisher-Jackson  15C. DATE SIGNED  (Signature of person authorized to sign)  16C. DATE SIGNED  12/12/2018	JNS Number: 007977887			
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			(Signature of Contracting Officer)	12/12/2018

 CONTINUATION SHEET
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 PAGE OF 2
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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES -	QUANTITY		UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
					, ·
	LIST OF CHANGES:				
	Reason for Modification: Funding Only Action				×
	Obligated Amount for this Modification: \$75,000.00				·
	New Total Obligated Amount for this Award:				
	\$4,820,168.04				
	Incremental Funded Amount changed: from				
	\$4,745,168.04 to \$4,820,168.04				
	CHANGES FOR LINE ITEM NUMBER: 5	1			
	Obligated Amount for this Modification: \$75,000.00				
	Incremental Funded Amount changed from	l			
	\$1,332,434.45 to \$1,407,434.45		1		
	FOB changed from Destination to				
	NEW ACCOUNTING CODE ADDED:	1		-	
	Account code:				
	19-20-B-53I6-000A46-2505-1953IP9005-001				
	Beginning FiscalYear 19	1			
	Ending Fiscal Year 20				
	Fund (Appropriation) B	1		1.	
	Budget Organization 5316 Program (PRC) 000A46	ļ			,
	Budget (BOC) 2505	1		, î	
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1953IP9005-001		1		,
	Quantity: 0				
	Amount: \$75,000.00				
	Percent: 4.82652				
	Subject To Funding: N				
	Payment Address:	1			
	RTP Finance Center	1	1		
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				•
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts		1		
	Durham NC 27711				
			l		
	Delivery Location Code: OAR/OAQPS				
	OAR/OAQPS			1	
	US Environmental Protection Agency				
	Mail Code: C404-04				
	109 T.W. Alexander Drive				
	Durham NC 27711 USA				
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NAME OF OFFEROR OR CONTRACTOR

INDUSTRIAL ECONOMICS, INCORPORATED

Payment:  RTP Finance Center  US Environmental Protection Agency  RTP-Finance Center (AA216-01)  109 TW Alexander Drive  www2.epa.gov/financial/contracts  Durham NC 27711	(C)	(D)	UNIT PRICE (E)	AMOUNT (F)
RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts				·
US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts				·
RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts				
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1. The Section B Clauses entitled: B.1 "LEVEL OF EFFORT – COST REIMBURSEMENT TERM CONTRACT" EPAAR 1552.211-73; B.3 "ESTIMATED COST AND FIXED FEE "(EP 52.216-190) (APR 1984) and B.4 "LIMITATION OF FUNDS NOTICE" (EP 52.232-100) (APR 1984) are modified and combined in the "CLAUSE RECAPITULATION"

The text is as follows:

<u>LIMITATION OF FUNDS NOTICE /RECAPITULATION</u> In accordance with the "Limitation of Funds" Clause, additional funding is being provided for **option period II** by this modification. The "Limitation of Funds Notice" Clause of the contract is modified as follows to reflect the current amounts allotted for cost and fee and the periods for which the funding is estimated to cover:

Base Period	<b>Prior Amount</b>	This Mod	New Amount
Estimated Cost			
Fixed Fee			
Cost Plus Fixed Fee	\$746,746.76		\$746,746.76
Allotted Cost			
Reserved for Fee			
Limitation of Funds	\$181,808.59	\$0.00	\$181,808.59
Option Period 1	Prior Amount	This Mod	New Amount
Estimated Cost		\$0.00	
Fixed Fee		\$0.00	
Cost Plus Fixed Fee	\$1,219,845.06	\$0.00	\$1,219,845.06
Allotted Cost		\$0.00	
Reserved for Fee			
Limitation of Funds	\$744,947.87	\$0.00	\$744,947.87
Option Period 2	Prior Amount	This Mod	New Amount
Estimated Cost		\$0.00	
Fixed Fee	ì	\$0.00	
Cost Plus Fixed Fee	\$1,946,876.88	\$0.00	\$1,946,876.88
Allotted Cost			
Reserved for Fee			
Limitation of Funds	\$1,488,616.74	\$0.00	\$1,488,616.74

<b>Option Period 3</b>	<b>Prior Amount</b>	This Mod	New Amount
Estimated Cost Fixed Fee		\$0.00	
Cost Plus Fixed Fee	\$1,159,308.27	\$0.00	\$1,159,308.27
Allotted Cost Reserved for Fee Limitation of Funds	\$994,360.43	\$0.00 \$0.00 \$0.00	\$994,360.43
Option Period 4	Prior Amount	This Mod	New Amount
Estimated Cost Fixed Fee Cost Plus Fixed Fee	1,553,915.92	\$ -	\$ \$ \$ 1,553,915.92
Allotted Cost Reserved for Fee Limitation of Funds	\$ 1,332,434.45	\$ \$ \$ 75,000.00	\$ \$ \$ \$ \$ 1,407,434.45